

Emission Inventory
High Desert Milk
Burley, Idaho

Pollutant	Milk Dryer P101		Fluid-bed P102		Powder Storage P103		Boiler #1 P104		Boiler #2 P105		Emergency Generator ⁽¹⁾		Total (lb/hr)	Total (ton/yr)
	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)	(lb/hr)	(ton/yr)		
PM₁₀	10.6	46.2	1.1	4.7	0.1	0.5	0.5	2.0	0.5	2.0	0.2	0.1	12.9	55.6
SO₂	0.019	0.1					0.0	0.2	0.0	0.2	0.3	0.1	0.4	0.5
NO_x ⁽²⁾	1.5	6.4					6.2	27.0	6.2	27.0	8.0	2.0	21.8	62.3
CO	11.9	52.2					5.2	22.6	5.2	22.6	4.3	1.1	26.6	98.6
VOC	0.18	0.8					0.3	1.5	0.3	1.5			8.5E-01	3.7
Lead	1.6E-05	0.0					0.0	0.0	0.0	0.0			7.7E-05	0.0
Acetaldehyde											2.1E-05	0.0	2.1E-05	0.0
Acrolein											1.1E-04	0.0	1.1E-04	0.0
Arsenic	6.4E-06	0.0					1.2E-05	0.0	1.2E-05	0.0			3.1E-05	0.0
Benzene	6.7E-05	0.0					1.3E-04	0.0	1.3E-04	0.0	6.3E-04	0.0	9.6E-04	0.0
Benzo(a)pyrene	3.8E-08	0.0					7.4E-08	0.0	7.4E-08	0.0	2.1E-07	0.0	4.0E-07	0.0
Cadmium	3.5E-05	0.0					6.8E-05	0.0	6.8E-05	0.0			1.7E-04	0.0
Fluorene	8.9E-08	0.0					1.7E-07	0.0	1.7E-07	0.0	1.8E-04	0.0	1.8E-04	0.0
Formaldehyde	2.4E-03	0.0					4.6E-03	0.0	4.6E-03	0.0	6.5E-05	0.0	1.2E-02	0.0
Naphthalene	1.9E-05	0.0					3.8E-05	0.0	3.8E-05	0.0	1.9E-03	0.0	2.0E-03	0.0
Nickel	6.7E-05	0.0					1.3E-04	0.0	1.3E-04	0.0			3.3E-04	0.0
Toluene	1.1E-04	0.0					2.1E-04	0.0	2.1E-04	0.0	4.0E-03	0.0	4.6E-03	0.0
Total PAH											1.7E-04	0.0	1.7E-04	0.0
Xylenes											2.8E-03	0.0	2.8E-03	0.0

(Revised 8-30-07)

Note: (1) The emission rate for SOx from the emergency generator was calculated using an emission factor from AP-42 chapter 3.4 "Large Stationary Diesel and All Stationary Dual-Fuel Engines" assuming a fuel sulfur content of 500 ppm (0.05%). The same information source was utilized for TAPs emmision rates. Emission rates for all other pollutants based on manufacturer's specifications for QSX15-G9 Nonroad 2 engine with faceplate rating of 755 HP. Emergen generator ton/yr values estimated based on 500 hours of operation.

(2) NOx emissions for the emergency generator include oxides of nitrogen and total unburned hydrocarbons.